

INEOS PP L40N-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

L40N-00 is a high melt flow rate, nucleated polypropylene impact copolymer designed for injection molding applications. L40N-00 is suitable for injection molding a wide variety of products where fast molding cycles and part durability are both desired. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
Additive	Nucleating Agent		
Features	Durable		
	Fast Molding Cycle		
	Food Contact Acceptable		
	High Flow		
	Impact Copolymer		
	Nucleated		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	22.5	MPa	
Break	16.6	MPa	
Tensile Elongation ²			ASTM D638
Yield	5.9	%	
Break	58	%	
Flexural Modulus - 1% Secant	1100	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	59	J/m	
23°C	120	J/m	

Notched Izod Impact (Area)			ASTM D256
-20°C	5.70	kJ/m ²	
23°C	12.1	kJ/m ²	
Instrumented Impact, Ductility			ASTM D3763
-20°C	Mixed		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	98.9	°C	
1.8 MPa, Unannealed	53.9	°C	
Vicat Softening Temperature	145	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	64		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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